

#13 Reg for Refund

Practitioner's Docket No. MI30-052

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Ammar Derraa

Application No.: 09/711,587 Group No.: 2822
Filed: November 13, 2000 Examiner: Stephen D. Meier
For: "Cathode Assemblies (as amended)"

Commissioner for Patents and Trademarks
Washington, D.C. 20231

ATTENTION: Refund Section, Accounting Division, Office of Finance

REQUEST FOR REFUND
(IMPROPER CHARGE OF DEPOSIT ACCOUNT)

I. RETURN OF REFUND REQUEST

This is a request for a refund, with respect to the debit to Deposit Account 23-0925, shown on the statement dated November 24, 2003 for the above-identified application.

A copy of the monthly statement, in which the error referred to occurs, accompanies this request. A copy of the June 11, 2003 Office Action Response, page 2 and page 5; Preliminary Amendment filed on November 13, 2000; copy of the Filing Receipt, accompanies this request.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

- ☐ deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents and Trademarks, Washington, D.C. 20231.

FACSIMILE

- ☒ transmitted by facsimile to the Patent and Trademark Office. 703-308-6778

Date: 22 January 2004


Signature

Rhonda G. Rambo

(type or print name of person certifying)

(Request for Debit (Improper Credit of Deposit Account)—page 1 of 2)

9 total pages

II. FEES CHARGED FOR WHICH REFUND IS REQUESTED

Improper charge for Claims in Excess of 20

**AMOUNT OF
REFUND
REQUESTED**

\$36.00

TOTAL REFUND REQUESTED

\$36.00

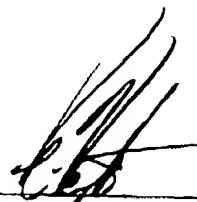
III. EXPLANATION OF WHY CONTESTED CHARGE IS IN ERROR

On November 13, 2000 we filed a divisional application, claims 1-52 were cancelled; total claims of 10 and one independent claim. On October 14, 2003 we filed an Office Action Response to the June 11, 2003 Office Communication; in this office action response, claims 1-62 were cancelled and new claims 63-84 were added. No new matter was added through the addition of claims 63-84. Therefore, no additional fees are believed to be required. Please credit Deposit Account No. 23-0925 with the above fee amount.

IV. MANNER OF REFUND

Please Credit Account No. 23-0925.

Date: 1/22/04


Robert C. Hyta
Reg. No. 46,791
Wells St. John P.S.
601 West First Ave., Suite 1300
Spokane, WA 99201-3828
Tel. No.: (509) 624-4276
Customer No.: 021567

(Request for Debit (Improper Credit of Deposit Account)—page 2 of 2)

Deposit Account Statement

Page 1 of 2


**United States
Patent and
Trademark Office**

Return To:


USPTO
Home
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Page**Deposit Account Statement**

Requested Statement Month: November 2003
 Deposit Account Number: 230925
 Name: WELLS ST JOHN PS
 Attention: RHONDA RAMBO
 Address: 601 WEST FIRST AVENUE SUITE 1300
 City: SPOKANE
 State: WA
 Zip: 99201-3817

| DATE | SEQ | POSTING REF TXT | ATTORNEY DOCKET NBR | FEE CODE | AMT | BAL |
|-------|------|--------------------|---------------------------|-------------|-----------|-------------|
| 11/04 | 56 | 09641826 | MI22-1504 | 1806 | \$180.00 | \$14,388.00 |
| 11/04 | 57 | 09951153 | MI22-1781 | 1806 | \$180.00 | \$14,208.00 |
| 11/05 | 9 | 6600905 | | 1811 | \$100.00 | \$14,108.00 |
| 11/06 | 34 | SUBSCRIPTION | | 8001 | \$3.00 | \$14,105.00 |
| 11/06 | 66 | 09641826 | MI22-1504 | 1806 | -\$180.00 | \$14,285.00 |
| 11/06 | 67 | 09951153 | MI22-1781 | 1806 | -\$180.00 | \$14,465.00 |
| 11/06 | 104 | 10009893 | | 9204 | -\$3.00 | \$14,468.00 |
| 11/07 | 24 | 09810387 | M122-1559 | 1806 | \$180.00 | \$14,288.00 |
| 11/07 | 118 | 10701696 | MI22-2424 | 1202 | \$72.00 | \$14,216.00 |
| 11/10 | 1 | 10226894 | MI22-2071 | 1806 | \$180.00 | \$14,036.00 |
| 11/10 | 42 | 10244122 | MI22-2111 | 1814 | \$110.00 | \$13,926.00 |
| 11/10 | 43 | 10244122 | MI22-2111 | 1202 | \$162.00 | \$13,764.00 |
| 11/10 | 44 | 10244122 | MI22-2111 | 1201 | \$258.00 | \$13,506.00 |
| 11/13 | 32 | SUBSCRIPTION | | 8001 | \$3.00 | \$13,503.00 |
| 11/13 | 43 | 10607285 | EA12-001 | 2051 | \$65.00 | \$13,438.00 |
| 11/13 | 69 | 10703921 | IS9-024 | 2201 | \$46.00 | \$13,392.00 |
| 11/14 | 29 | 10033599 | AV1-062 | 1201 | -\$420.00 | \$13,812.00 |
| 11/14 | 44 | 10071843 | | 9204 | -\$20.00 | \$13,832.00 |
| 11/14 | 60 | 76384731 | IT2-129 | 7003 | \$100.00 | \$13,732.00 |
| 11/14 | 101 | 10705522 | IR3-065 | 2001 | \$385.00 | \$13,347.00 |
| 11/14 | 1191 | 78328106 | PO4-1227 | 7001 | \$335.00 | \$13,012.00 |
| 11/17 | 236 | 78328258 | PO4-1228 | 7001 | \$335.00 | \$12,677.00 |
| 11/17 | 342 | 78328330 | PO4-1229 | 7001 | \$335.00 | \$12,342.00 |
| 11/17 | 354 | 78328339 | PO4-1230 | 7001 | \$335.00 | \$12,007.00 |
| 11/17 | 401 | 76121414 | PO4-1141 | 7004 | \$150.00 | \$11,857.00 |
| 11/18 | 989 | 78329408 | PO4-1222 | 7001 | \$335.00 | \$11,522.00 |
| 11/18 | 1064 | 78329440 | PO4-1226 | 7001 | \$335.00 | \$11,187.00 |
| 11/19 | 118 | 10713647 | | 9204 | -\$580.00 | \$11,747.00 |
| 11/20 | 943 | 76192835 | ST79-101 | 7004 | \$150.00 | \$11,597.00 |
| 11/21 | 107 | 09524804 | MI40-285 | 1201 | \$774.00 | \$10,823.00 |
| 11/21 | 324 | 5295793 | CL15003 | 8014 | \$25.00 | \$10,798.00 |

Deposit Account Statement *105042*

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| | | | | | | |
|-------|------|--------------|---------------------|------|-------------|-------------|
| 11/21 | 1159 | 1793997 | TI5-102 | 7205 | \$100.00 | \$10,698.00 |
| 11/21 | 1160 | 1793997 | TI5-102 | 7201 | \$400.00 | \$10,298.00 |
| 11/21 | 1161 | 1793997 | TI5-102 | 7206 | \$100.00 | \$10,198.00 |
| 11/21 | 1162 | 1793997 | TI5-102 | 7203 | \$100.00 | \$10,098.00 |
| 11/24 | 3 | 09711587 | M130-052 | 1202 | \$36.00 | \$10,062.00 |
| 11/25 | 6 | 09834660 | MI22-1637 | 1453 | -\$1,300.00 | \$11,362.00 |
| 11/25 | 1050 | 76408923 | RI27-101 | 7003 | \$100.00 | \$11,262.00 |
| 11/26 | 7 | P-108265 | 1058-108 | 1460 | \$130.00 | \$11,132.00 |
| 11/28 | 1 | 10339695 | MI22-2224 | 1202 | \$630.00 | \$10,502.00 |
| 11/28 | 33 | SUBSCRIPTION | | 8001 | \$3.00 | \$10,499.00 |

| START | SUM OF | SUM OF | END |
|-------------|------------|------------|-------------|
| BALANCE | CHARGES | REPLENISH | BALANCE |
| \$14,568.00 | \$6,732.00 | \$2,663.00 | \$10,499.00 |

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

priority Application Serial No. 09/251,262
priority Filing Date February 16, 1999
 Inventor Ammar Derraa
 Assignee Micron Technology, Inc.
priority Group Art Unit 2815
priority Examiner D. Hardy
 Attorney's Docket No. MI30-052
 Title: Cathode Assemblies

PRELIMINARY AMENDMENT

To: Box Patent Application
 Assistant Commissioner for Patents
 Washington, D.C. 20231

From: David G. Latwesen, Ph.D. (Tel. 509-624-4276; Fax 509-838-3424)
 Wells, St. John, Roberts, Gregory & Matkin P.S.
 601 W. First Avenue, Suite 1300
 Spokane, WA 99201-3828

COPY

AMENDMENTS

In the Specification

Replace the title with --Cathode Assemblies--.

At p. 1, before the "Technical Field" section, insert

--RELATED PATENT DATA

This patent resulted from a divisional application of U.S. Patent
 Application Serial No. 09/251,262, which was filed on February 16,
 1999.--

EL 465852811

Amended Claims

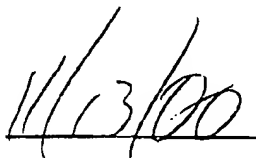
Cancel claims 1-52.

REMARKS

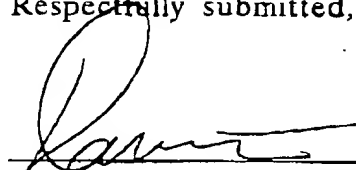
Claims 1-52 are canceled, leaving claims 53-62 pending in the application. Applicant requests substantive examination of the pending claims.

Respectfully submitted,

Dated:



By:

David G. Latwesen, Ph.D.
Reg. No. 38,533**COPY**



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20230
www.uspto.gov

| APPLICATION NUMBER | FILING DATE | GRP ART UNIT | FILEE REC'D | ATTY. DOCKET NO | DRAWINGS | TOT CLAIMS | IND CLAIMS |
|--------------------|-------------|--------------|-------------|-----------------|----------|------------|------------|
| 09/711,587 | 11/13/2000 | 2812 | 710 | MI30-052 | 3 | 10 | 1 |

021567
WELLS ST JOHN ROBERTS GREGORY AND MATKIN
SUITE 1300
601 W FIRST AVENUE
SPOKANE, WA 992013828

FILING RECEIPT



OC000000005789899

Date Mailed: 02/22/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Ammar Derraa, Boise, ID ;

Continuing Data as Claimed by Applicant

THIS APPLICATION IS A DIV OF 09/251,262 02/16/1999

COPY

Foreign Applications

If Required, Foreign Filing License Granted 02/20/2001

Title

Cathode assemblies

Preliminary Class

438

Data entry by : LADRINGAN, JUDITH

Team : OIPE

Date: 02/22/2001



Appl. No. 09/711,587

Amendments to the Claims

Claim 1-62 (Cancelled).

Claim 63 (New): A cathode assembly comprising:

a plurality of silicon-comprising emitter tips, at least one of the emitter tips being substantially conical and comprising a tip portion supported by a frustrum portion, the tip and frustrum portions including sidewalls; and

a coating over the tip portion, the coating not being along the frustrum portion sidewalls, wherein the coating comprises a first material having a lower work function than silicon.

Claim 64 (New): The assembly of claim 63 wherein the tip portion terminates in a pointed apex.

Claim 65 (New): The assembly of claim 63 wherein the at least one of the emitter tips comprises conductively doped polysilicon.

Claim 66 (New): The assembly of claim 65 wherein the frustrum portion comprises conductively doped polysilicon.

Claim 67 (New): The assembly of claim 65 wherein the tip portion comprises conductively doped polysilicon.

Claim 68 (New): The assembly of claim 63 wherein the at least one of the emitter tips consists essentially of conductively doped polysilicon.

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Appl. No. 09/711,587

REMARKS

Claims 53-62 have been cancelled and new claims 63-84 have been added. Claims 63-84 are pending in the application.

No new matter has been added through the addition of claims 63-84. Claims 63-84 are supported, for example, at Figs. 3-6 and pages 7-10 of the Specification.

Claims 63-84 are also believed to be allowable over the cited references. For example, claim 63 is believed allowable for at least the reason that it recites a plurality of silicon-comprising emitter tips, at least one of the emitter tips being substantially conical and comprising a tip portion supported by a frustrum portion with the tip and frustrum portions including sidewalls. Claim 63 further recites a coating over the tip portion without the coating being over the frustrum portion sidewalls, the coating including a first material having a lower work function than silicon. The cited references do not teach or suggest these features. With particular reference to Fig. 107 of Jones, to the extent a coating is taught, the coating extends over the frustrum portion of the emitter tip. Neither Takemura nor the remaining cited references teach the coating of an emitter tip with a material having a lower work function than silicon. Because the cited references neither teach nor suggest the features of claim 63, claim 63 is allowable. Claims 64-77 depend from claim 63 and are allowable for at least the reasons stated above regarding claim 63.

As another example, claim 77 is believed allowable for at least the reason that it recites a cathode assembly that includes material over a substrate and between at least two substantially conical emitter tips with the material having an upper surface contacting the frustrum portion sidewall without contacting the tip portion sidewall of the emitter tips. Claim 77 further recites that an entirety of the upper surface of the material is exposed.

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